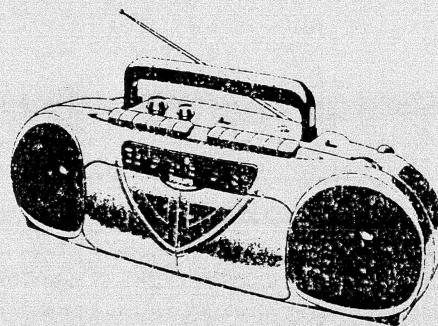


Service
Service
Service



Service Manual

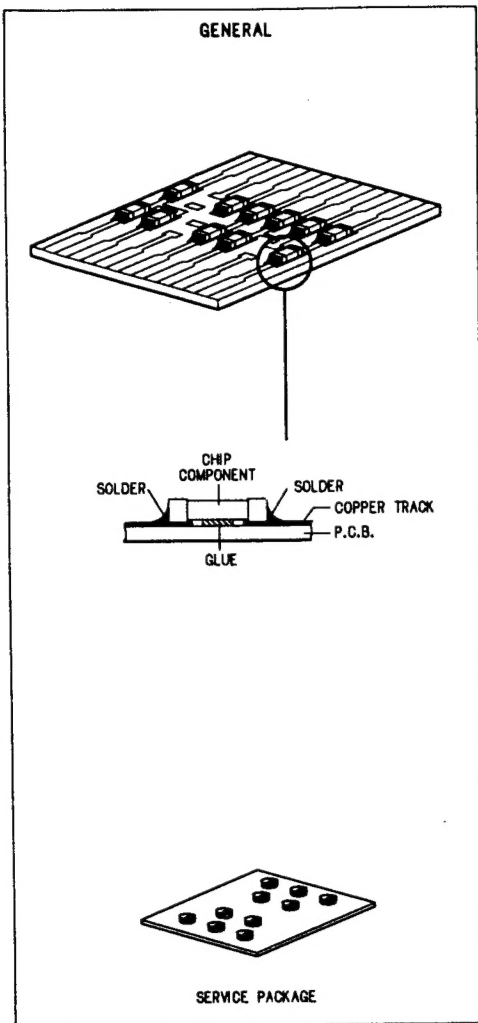
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HANDLING CHIP COMPONENTS



GB WARNING

All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools at this potential.

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D

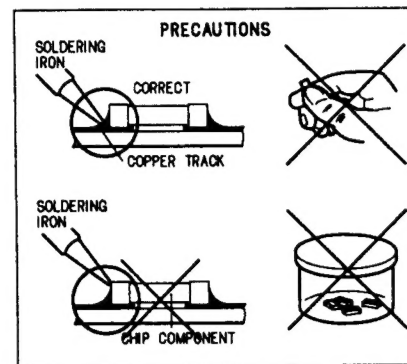
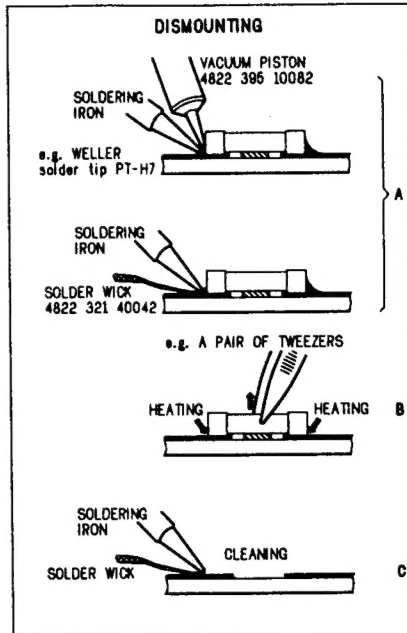
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Gerätes darf nicht verändert werden. Für Reparaturen sind Originalersatzteile zu verwenden.

S Varning !

Ösynlig laserstrålning när apparaten är öppnad och spårren är urkopplad. Betrakta ej strålen.

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"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".



ESD



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Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

F

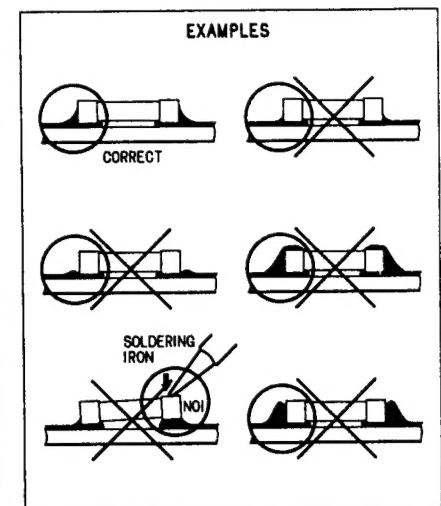
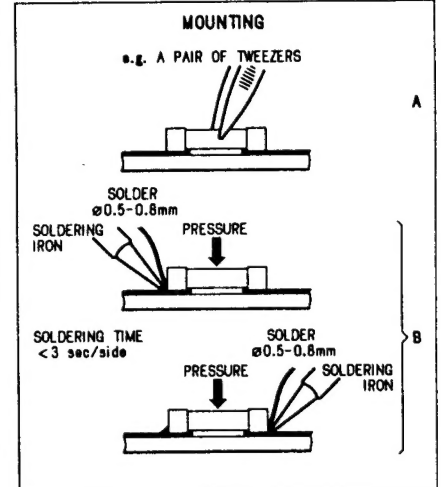
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Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD). La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cautela alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza. Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

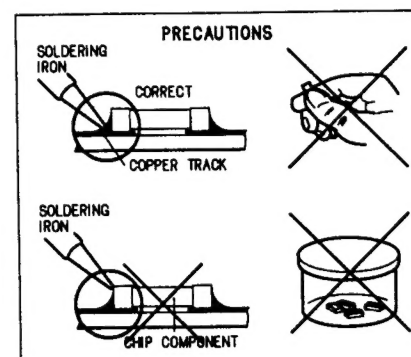
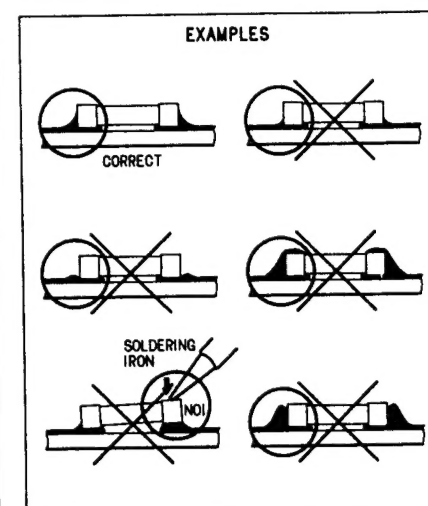
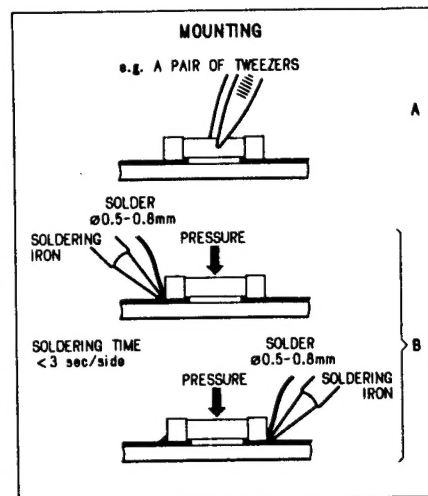
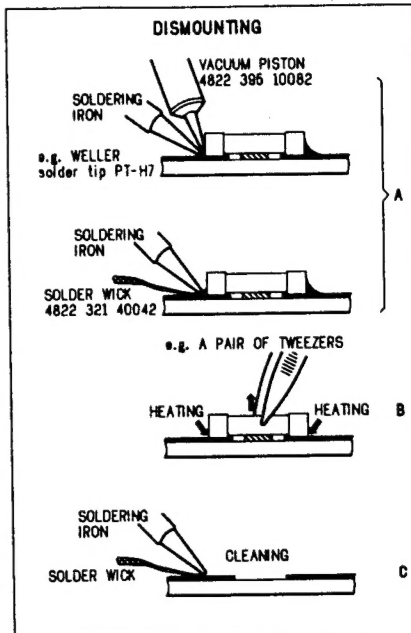
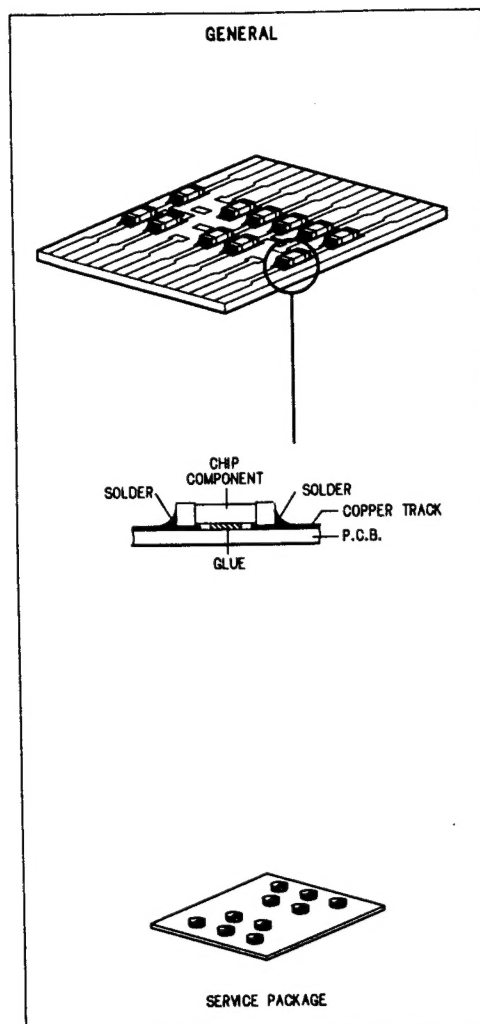
NL

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

SF Varoitus !

Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen !

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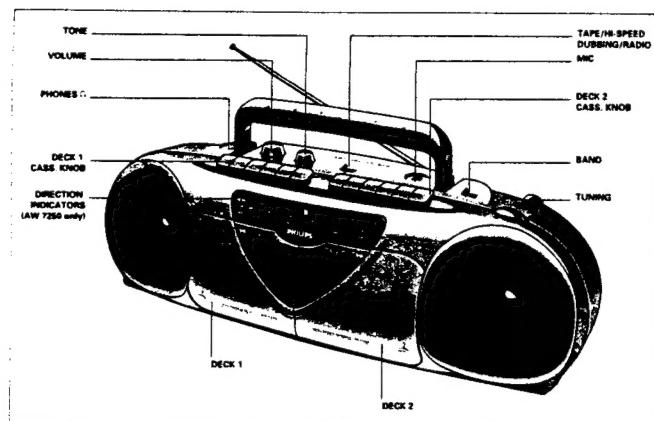
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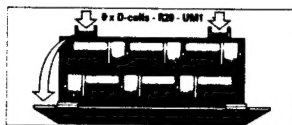
CONNECTIONS AND CONTROLS



SUPPLY

Battery supply

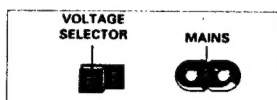
- Whenever convenient, use the mains supply if you want to conserve battery life.
- Open the battery compartment and insert six batteries as indicated, type R20, UM1 or D-cells.



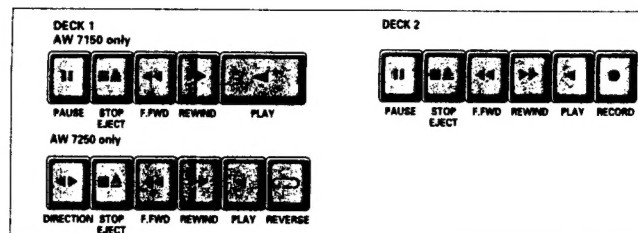
- Remove the batteries if they are exhausted or if they will not be used again for a long time.
- The battery supply is switched off when the set is connected to the mains supply. To change over to battery supply, pull out the plug from the MAINS socket.

mains supply

- Make sure if the power voltage as shown on the type plate (on the base of the set) corresponds to your local mains voltage. If it does not, consult your dealer or service organization.
- If the set is equipped with a voltage selector, set this selector to the local mains voltage.



- Connect the mains lead to the mains socket (and plug the wall outlet). The mains supply is switched on.
- To disconnect the set from the mains completely, withdraw the mains plug from the wall socket.



CASSETTE PLAYBACK

PLAYBACK ON DECK 1 OR 2

- Set the TAPE/RADIO selector to TAPE.
- Press EJECT ▲ and insert a recorded cassette.
- For playback, any cassette type can be inserted.
- Adjust the sound with the VOLUME and TONE controls. You may connect stereo headphones with 3.5 mm plug to socket ☐ PHONES. The loudspeakers will then be muted.
- Press PLAY ◀ and playback will start.
- Press STOP ■ if you want to stop the playback before the end of the tape. The set is then switched off. On pressing again, the cassette holder will open (EJECT).
- When the end of the tape is reached, the recorder buttons are released.



FOR AW 7250 ONLY

- For playback on deck 1, set the REVERSE button ◀ to:
- **▶ single reverse**, to play both cassette sides once. At the end of the first cassette side, the tape direction is reversed and the recorder stops at the end of the second cassette side.
- **◀ continuous reverse** for non-stop playback. The recorder reverses the tape direction whenever reaching the end of the cassette. To stop, STOP ■ must be pressed.
- Select the tape direction to start with using the DIRECTION button ◀. The DIRECTION indicators ◀▶ show the actual tape direction.
- During playback you can reverse the tape direction at any moment using the DIRECTION button ◀.

CONTINUOUS PLAY - deck 2 followed by deck 1

- Set the TAPE/RADIO selector to TAPE.
- Press both EJECT ▲ buttons and insert a recorded cassette into both decks.
- On deck 1, set the REVERSE button ◀ to ▶ and select the tape direction using the DIRECTION button ◀. **For AW 7250 only.**
- Press PLAY ▶ on deck 1 and PAUSE ■ and PLAY ▶ on deck 2 - deck 1 will play and deck 2 stands still.
- As soon as deck 1 stops (at the end of the cassette or when its STOP ■ button is pressed), PAUSE ■ is released and deck 2 will start playing back.
- To stop, press STOP ■; the set is then switched off.

RECORDING

Copyright:

Recording is permissible insofar as copyright or other rights of third parties are not infringed.

Safeguarding a cassette against erasure:

Accidental erasure can be prevented by breaking the small tab in the top corner of the back of the cassette. This protection can be reversed with a piece of adhesive tape placed over the same corner.



Winding the tape

- Press F.FWD ◀ to fast forward the tape.
- Press REW ▶ to fast rewind the tape.
- Press STOP ■ to stop fast forward or fast-rewind, or before the end of the tape.

RECORDING (on deck 2 only)

- Press EJECT ▲ to open the cassette holder.
- Insert the cassette into deck 2. For recording you must use a NORMAL cassette (IEC I) on which the tabs have not been broken.
- At the very beginning of the tape, no recording will take place during the first seven seconds when the leader tape passes the recorder heads.
- When monitoring during recording, adjust the sound with the controls VOLUME and TONE. These controls do not affect the recording.
- To stop, Press STOP ■.



RECORDING FROM THE RADIO

- Set the TAPE/RADIO selector to RADIO.

Mono recording from the built-in microphone

- Set the TAPE/RADIO selector to TAPE.
- Set the VOLUME control to the minimum volume level (during microphone recordings, monitoring is not possible).

STARTING AND STOPPING THE RECORDING

- To start recording, press RECORD ● and PLAY ◀ is then pressed at the same time.
- When the end of the tape is reached, the recorder buttons are released.
- To interrupt recording, press PAUSE ■.
- To continue recording, press PAUSE ■ again.
- Press STOP ■ if you want to stop the recording before the end of the tape. On pressing again, the cassette holder will open.
- The set is switched off if the TAPE/RADIO selector is in position TAPE and no buttons are pressed.

DUBBING - Copying from deck 1 to 2

When dubbing, it is recommended to use fresh batteries or to connect the set to the mains supply.

- Set the TAPE/RADIO selector to:
- DUBBING - for normal speed copying
- HI-SPEED DUBBING - for high speed copying
- Do not switch this switch during dubbing.
- Press both EJECT ▲ buttons and insert a recorded cassette into deck 1 and a cassette which is suited for recording into deck 2.
- Press PAUSE ■ followed by RECORD ● on deck 2.
- To start dubbing, press PLAY ◀ on deck 1.
- Press PAUSE ■ on deck 2 if you wish to omit undesired passages and the playback in deck 1 will continue. To restart dubbing, press PAUSE ■ again.
- By pressing PAUSE ■ in deck 1 during dubbing, a blank part will be recorded in deck 2.
- To stop dubbing, press both STOP buttons ■. The set is then switched off.

SPECIFICATIONS

GENERAL

Main voltage	-/00/04/14	230V
	-/01/11	120/230V
Main frequency		50Hz
Battery		9V (R20 x 6)
Power Consumption		10W
Output power	Main	2 x 0.8 W
	battery	2 x 0.7 W
Speaker impedance		2 x 8 Ohm

AUDIO / CASSETTE

Tape speed		4.76cm/s \pm 3%
Wow & flutter		< 0.4% (JIS RMS)
Fast winding time (C60)		< 130 sec.
Frequency response	P/B	250 - 6300 HZ (\pm 6 dB)
	High speed dubbing	250 - 5000 Hz
S/N ratio		> 30dB
Erase ratio		50 dB (w/BPF)
Bias frequency		60 \pm 10KHz
Tone control	3KHz	- 8 dB

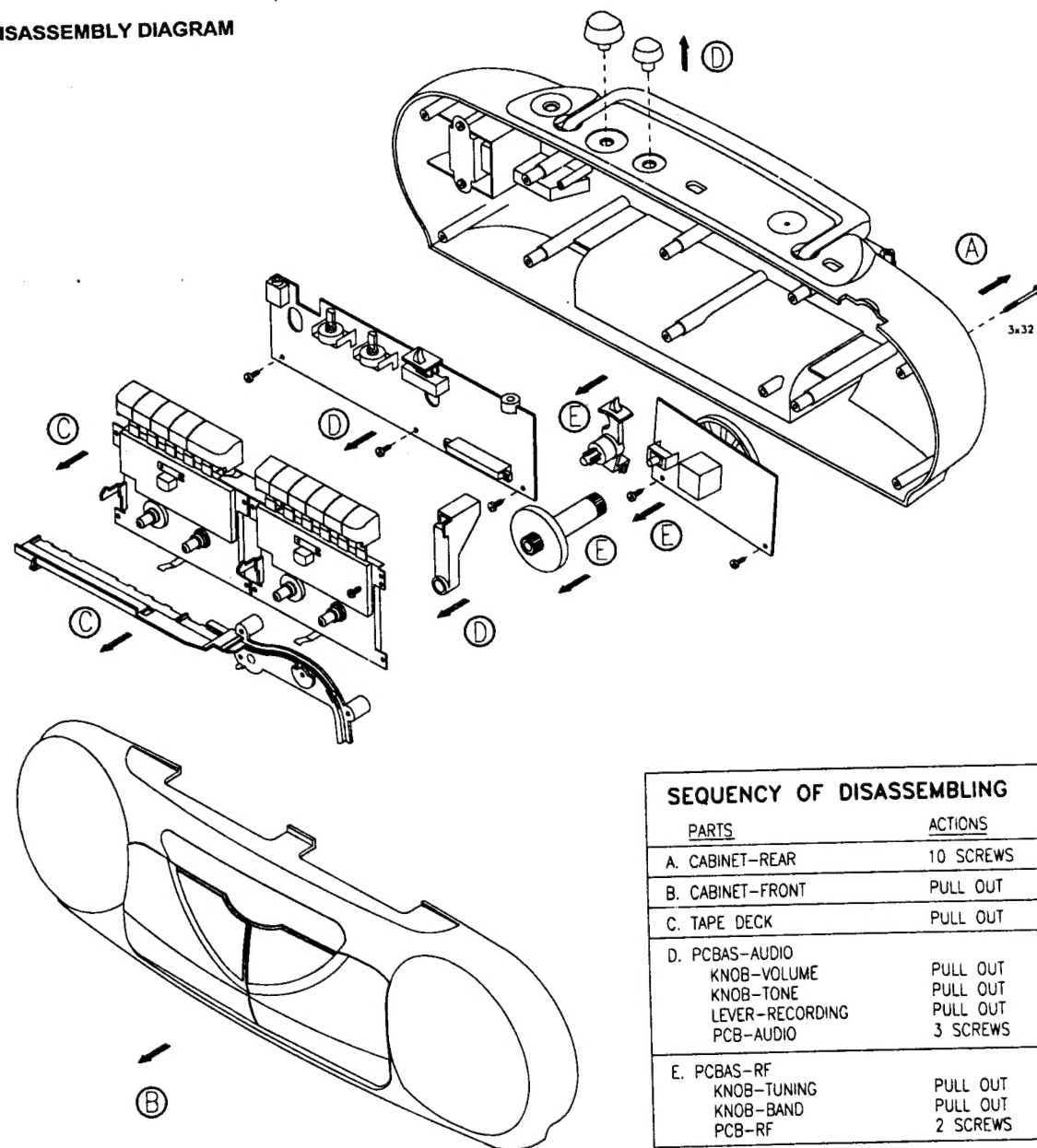
TUNER - FM section

Tuning range		87.5 - 108MHz
	-/14	65 - 108 MHz
IF frequency		10.7MHz
Sensitivity		< 22 dBf at 26dB S/N
Selectivity		> 20dB at 600KHz B.W.
IF rejection		> 50 dB
Image rejection		> 20 dB
AM suppression		> 30 dB
Stereo separation	1 KHz	> 20 dB

TUNER - AM section

Tuning range	MW	531 - 1606.5KHz
	LW	148.5 - 283.5 KHz
	SW1	2.3 - 7.3 MHz
	SW2	9.5 - 21.85 MHz
IF frequency		468 \pm 3KHz
Sensitivity	MW	< 4000 μ V/m at 26dB S/N
	LW	< 6000 μ V/m
	SW1	85 - 210 μ V
	SW2	85 - 210 μ V
Selectivity	MW	> 16 dB
	LW	> 20 dB
	SW1	> 22 dB
	SW2	> 22 dB
IF rejection	MW	> 30 dB
	LW	> 27 dB
Image rejection	MW	> 28 dB
	LW	> 30 dB
	SW1	> 10 dB
	SW2	> 6 dB

DISASSEMBLY DIAGRAM



SEQUENCY OF DISASSEMBLING	
PARTS	ACTIONS
A. CABINET-REAR	10 SCREWS
B. CABINET-FRONT	PULL OUT
C. TAPE DECK	PULL OUT
D. PCBAS-AUDIO KNOB-VOLUME KNOB-TONE LEVER-RECORDING PCB-AUDIO	PULL OUT PULL OUT PULL OUT 3 SCREWS
E. PCBAS-RF KNOB-TUNING KNOB-BAND PCB-RF	PULL OUT PULL OUT 2 SCREWS

BLOCK DIAGRAM

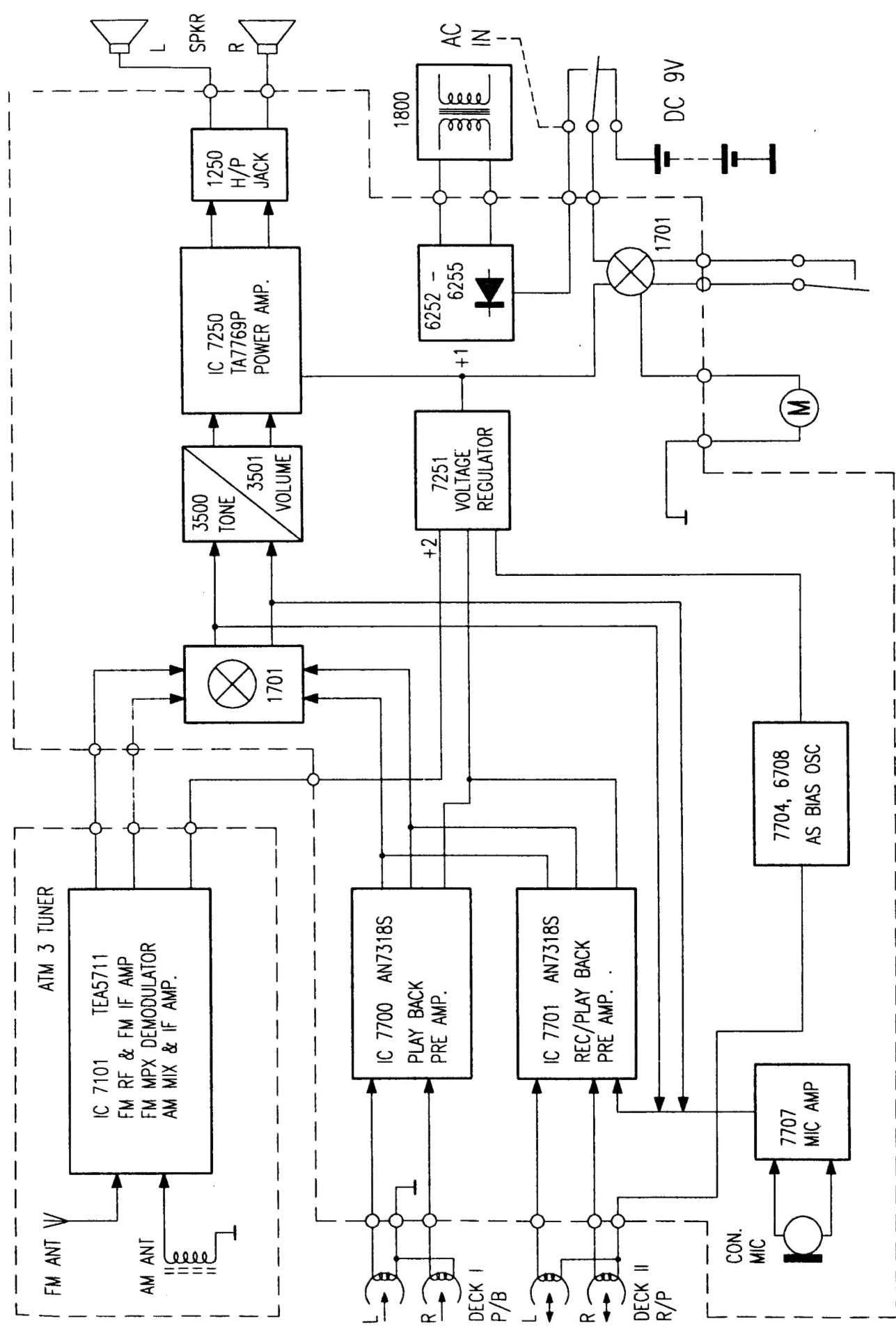
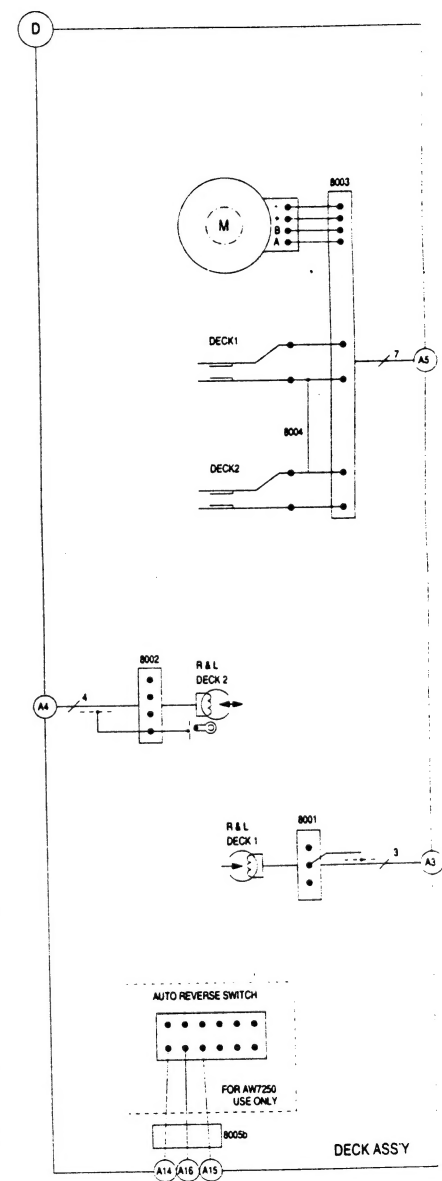
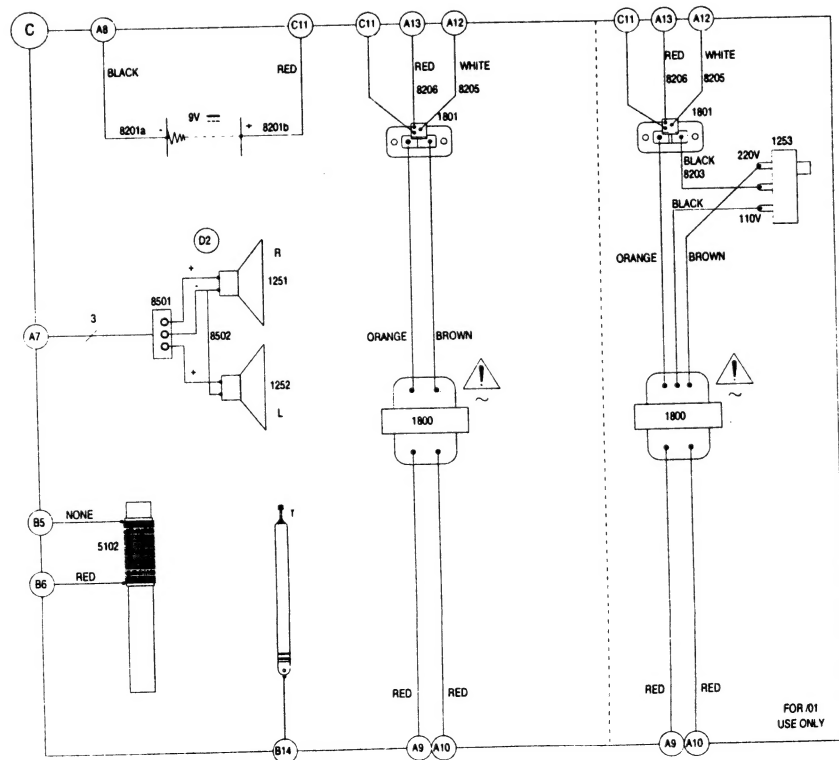
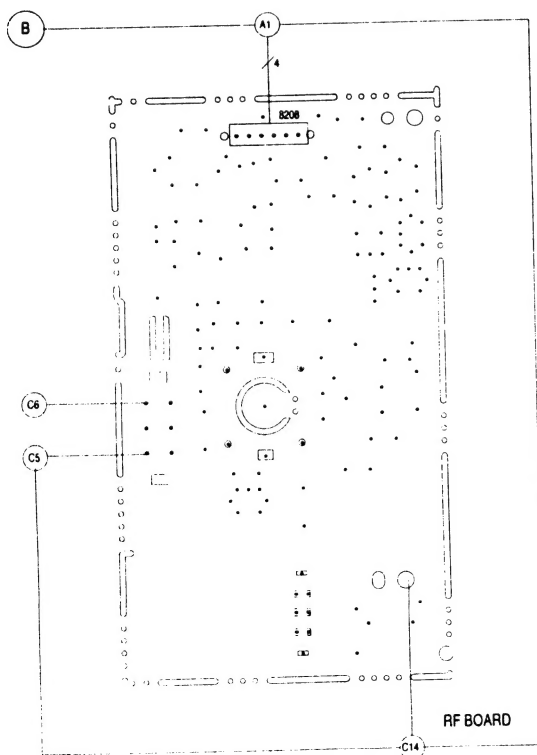


Diagram of the AF Board (AW7250) showing component locations and connections. The board is populated with numerous components, including integrated circuits (ICs) and passive components. Key components labeled include 8203a, 8005a, 1104, 1105, 1101, 1102, 1103, and 8203b. The board is connected to a power supply (A) and ground (B6). A note indicates "FOR AW7250 USE ONLY".



RADIO ALIGNMENT (FM/MW/LW)

AM IF										
AM or MW	468KHz		min.	5106 5108		max.				
AM RF										
MW * (see fig. 2 & 3)	512KHz		max.	5105	H/P Jack	max.				
	1635KHz		min.	C4						
	550KHz			L2		max.				
	1500KHz			C3						
LW * (see fig. 2 & 3)	147KHz		max.	5109	H/P Jack	max.				
	291KHz		min.	2126						
	155KHz			5103		max.				
	270KHz			2150						
FM IF										
FM #	10.7MHz						symm. max. lin.			
FM RF										
FM # (see fig. 2, 4 & 5)	87.35MHz		max.	5104	H/P Jack	max.				
	108.25MHz		min.	C2						
	88MHz			5101		max.				
	106MHz			C1						
FM # for -/14 (see fig. 2, 4 & 5)	64.7MHz		max.	5104	H/P Jack	max.				
	108.25MHz		min.	C2						
	68MHz			5101		max.				
	106MHz			C1						
STEREO DECODER										
FM #	98MHz		98MHz	3101		152 ± 1KHz				

* Mod. 1KHz 30%
10nF + 15E

Repeat

5

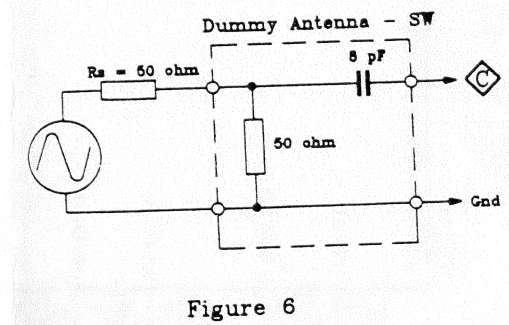
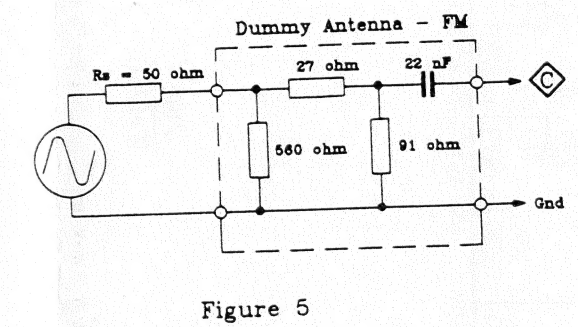
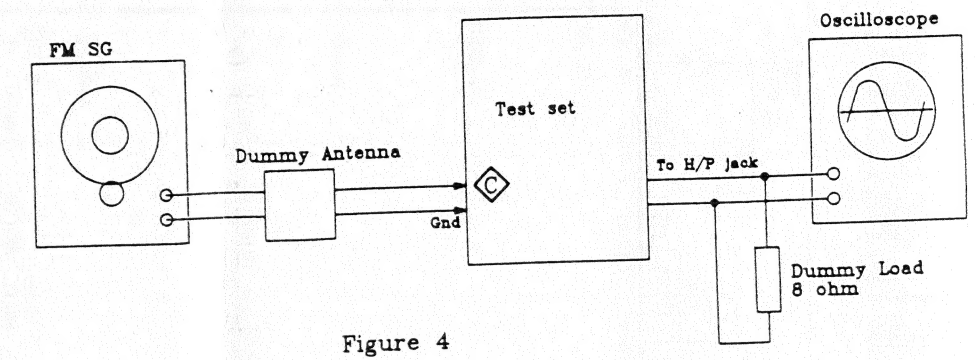
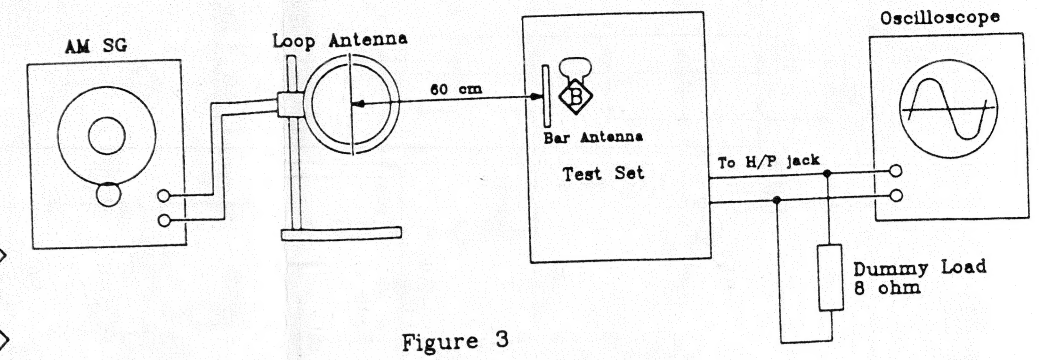
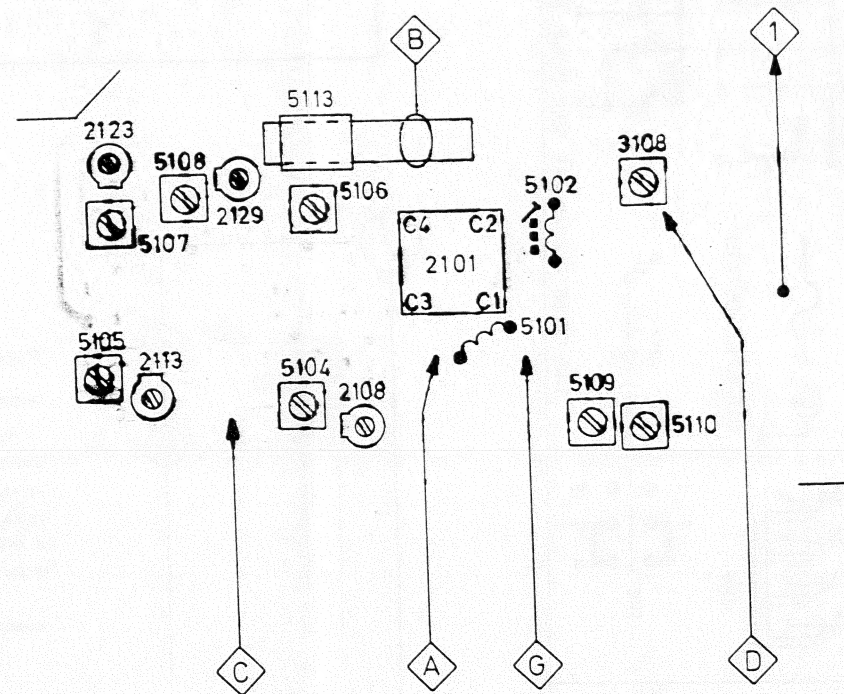
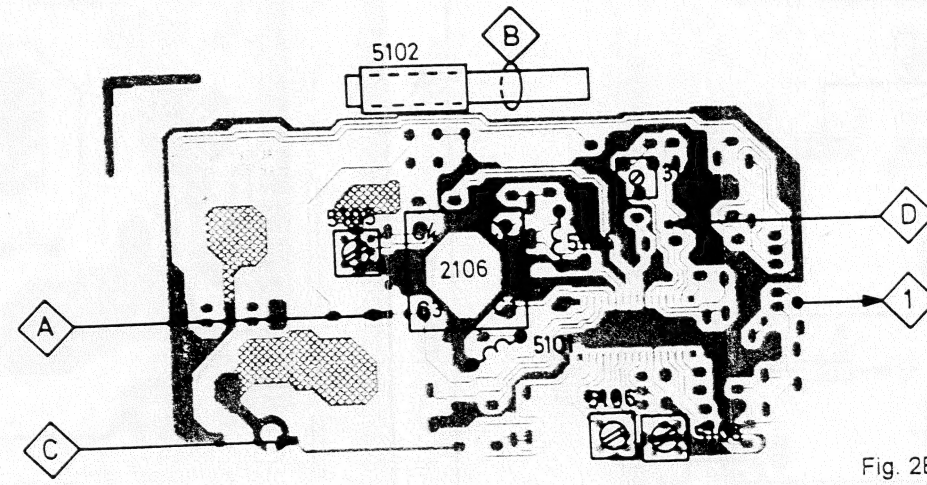
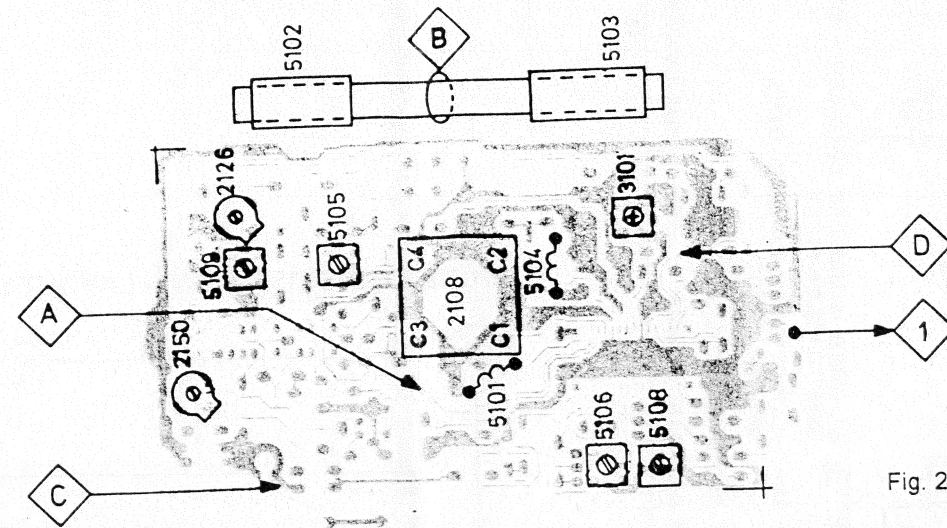
RADIO ALIGNMENT (FM/MW/SW1/SW2)

AM IF									
AM or MW	468KHz		min.	5110 5109		max.			
AM RF									
MW * (see fig. 2C & 3)	512KHz		max.	5108		max.			
	1635KHz		min.	2129					
	550KHz			5113		max.			
	1500KHz			C3					
SW1 * (see fig. 2C, 4 & 6)	2.23MHz		max.	5106		max.			
	7.5MHz		min.	C4					
	2.5MHz			5104		max.			
	7.2MHz			2108					
SW2 * (see fig. 2C, 4 & 6)	9.2MHz		max.	5107		max.			
	22.29MHz		min.	2123					
	10MHz			5105		max.			
	21MHz			2113					
FM IF									
FM #	10.7MHz						symm. max. lin.		
FM RF									
FM # (see fig. 2, 4 & 5)	87.35MHz		max.	5102		max.			
	108.25MHz		min.	C2					
	88MHz			5101		max.			
	106MHz			C1					
STEREO DECODER									
FM #	98MHz		98MHz	3108		152 ± 1KHz			

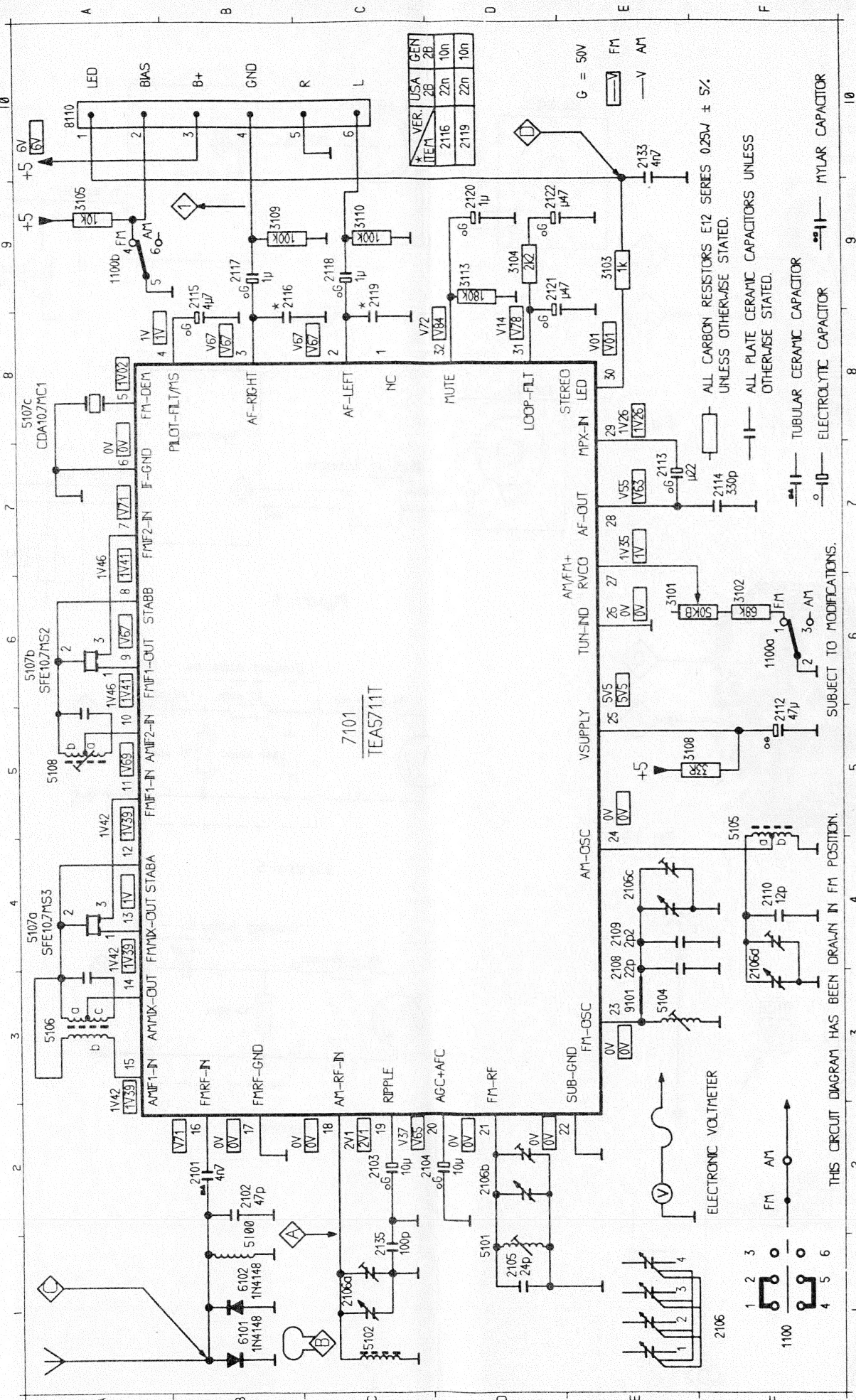
* Mod. 1KHz 30%
10nF + 15E

Repeat

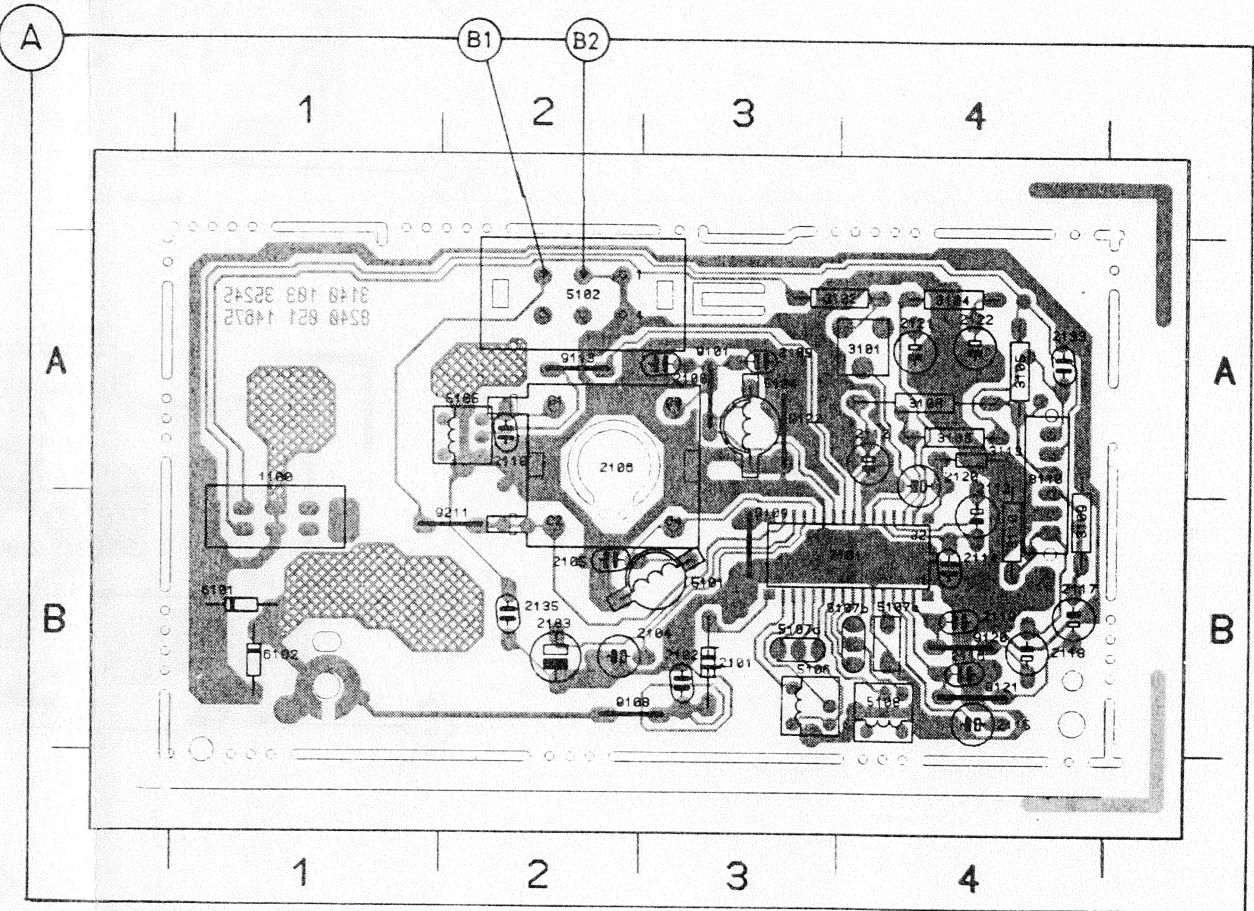
ALIGNMENT LOCATION



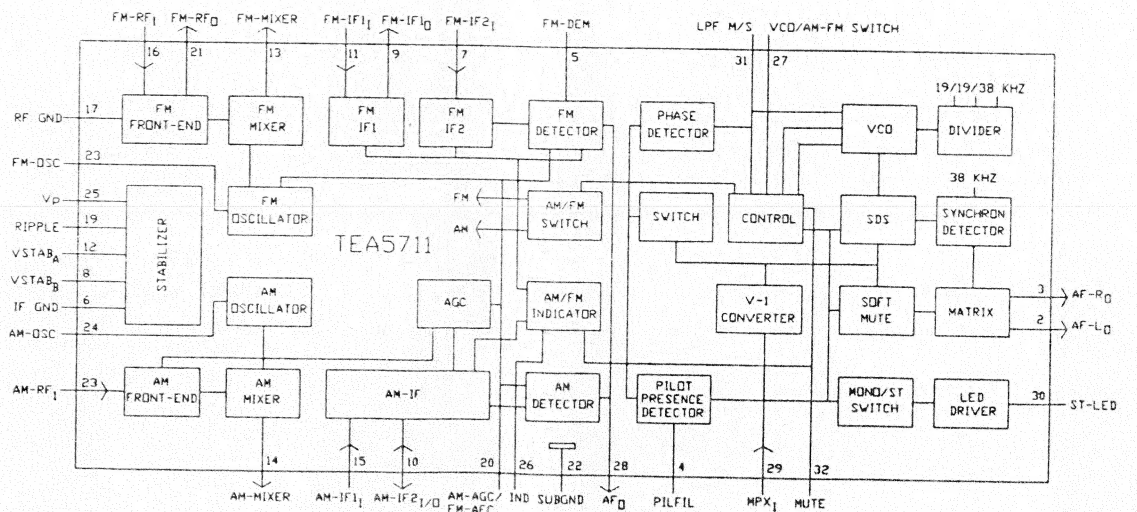
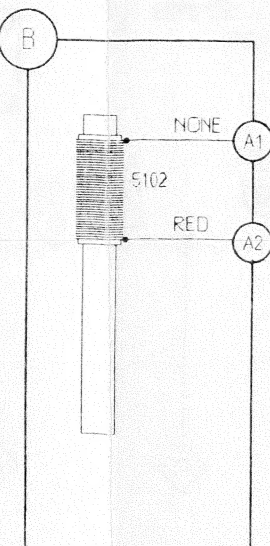
TUNER BOARD (FM/AM) - CIRCUIT DIAGRAM

[illegible]

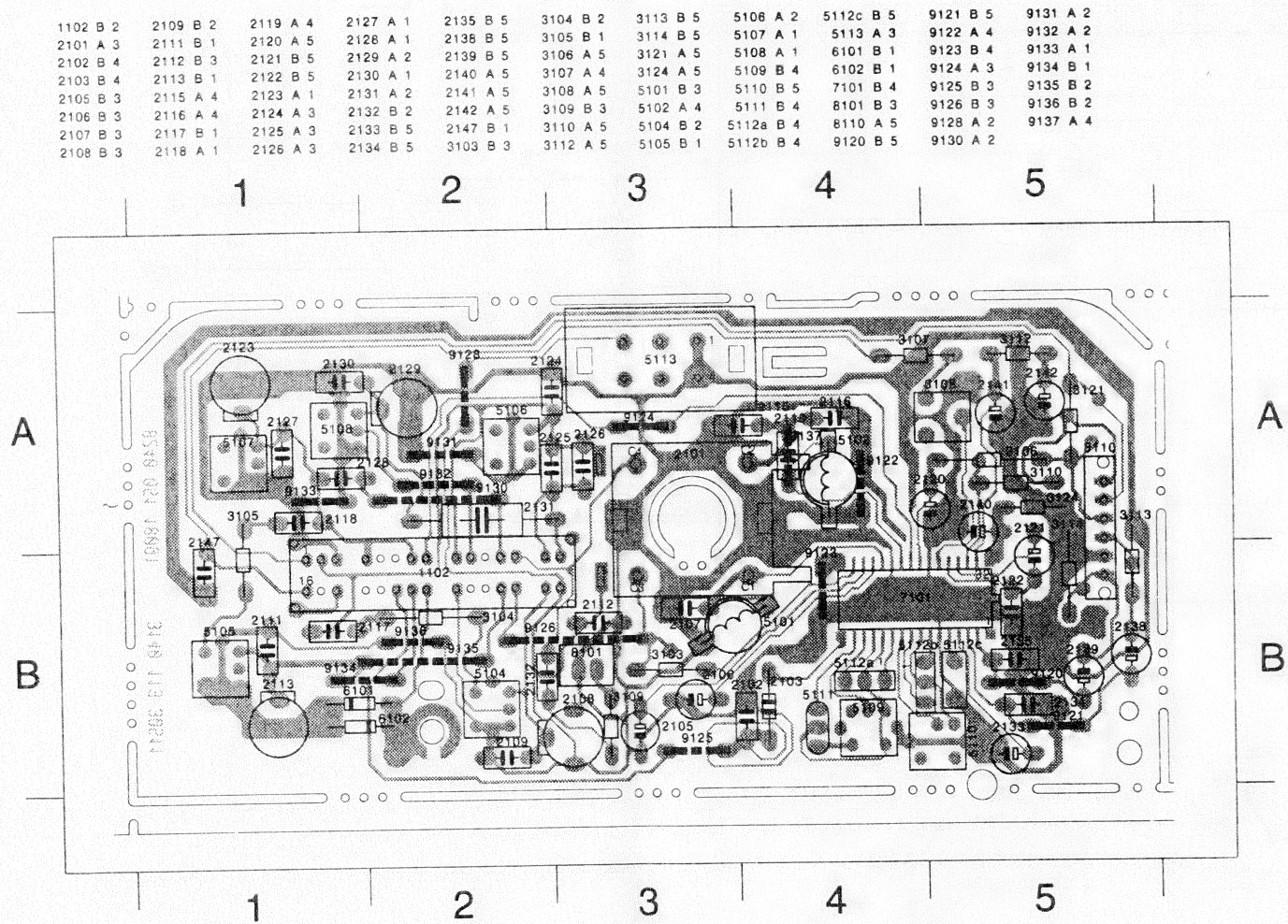
TUNER BOARD (FM/MW) - LAYOUT DIAGRAM



2100 B 3	5100 B 3
2101 B 3	5107a B 3
2102 B 3	5107b B 4
2103 B 2	5107c B 4
2104 B 2	5108 B 4
2105 B 2	5101 B 1
2106 A 2	0102 B 3
2108 A 3	7101 B 4
2109 A 3	8110 A 4
2110 A 2	Q101 A 3
2112 A 4	9100 B 2
2113 B 4	Q109 B 3
2114 B 4	0113 A 2
2115 B 4	9120 B 4
2116 B 4	9121 B 4
2117 B 4	9122 A 3
2118 B 4	9211 B 2
2119 B 4	
2120 A 4	
2121 A 4	
2122 A 4	
2133 A 4	
2135 B 2	
3101 A 4	
3102 A 3	
3103 A 4	
3104 A 4	
3105 A 4	
3108 A 4	
3109 B 4	
3110 B 4	
3113 A 4	
5101 B 3	
5102 A 2	
5104 A 3	
5105 A 2	



TUNER BOARD (FM/MW/SW1/SW2) - LAYOUT DIAGRAM



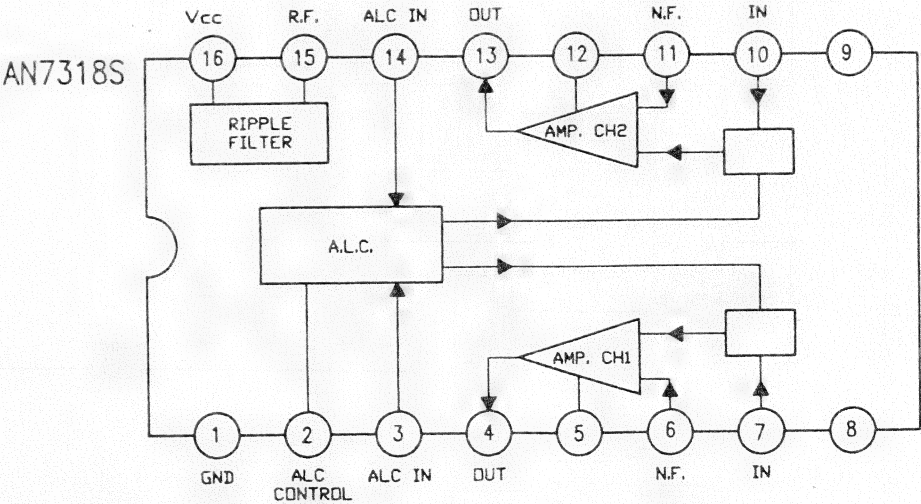
CASSETTE ADJUSTMENT

Adjustment	Cassette	Recorder position			Measure on	Read on	Adjust with	Adjust to
		SK	Deck 1	Deck2				
Head Azimuth	6.3KHz SBC420*	Tape	Play	--	H/P Jack	mV meter	Left screw of R/P head on Deck 1	max.
		Tape	--	Play	H/P Jack	mV meter	Left screw of R/P head on Deck 2	L = R
Tape	3150Hz	Tape (nor. speed)	--	Play	H/P Jack	Wow and flutter meter	3736	**a

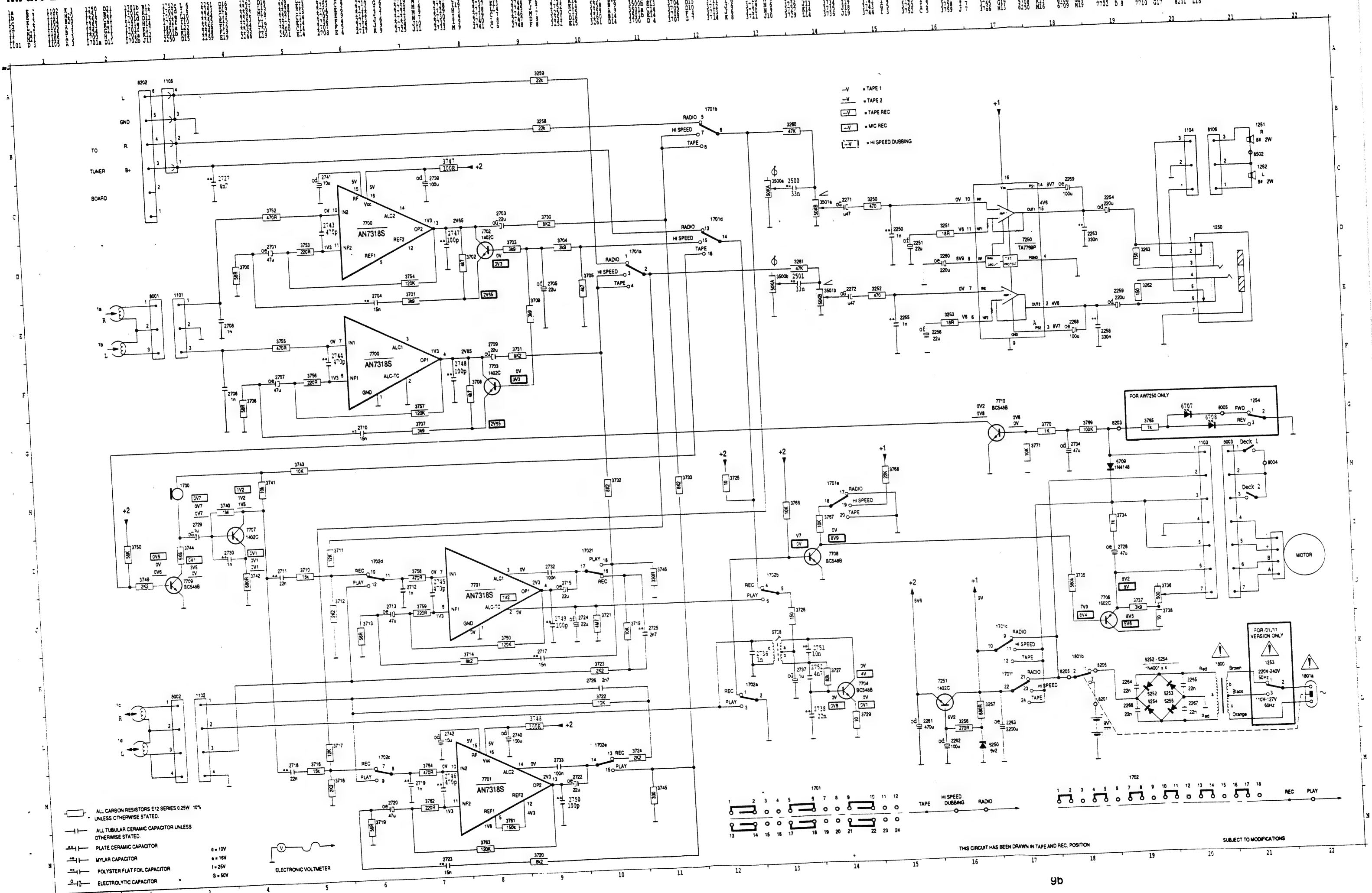
* SBC420 : 4822 397 30071

**a The maximum permissible speed deviation is $\pm 3\%$.
Moreover, the wow and flutter value can be read.

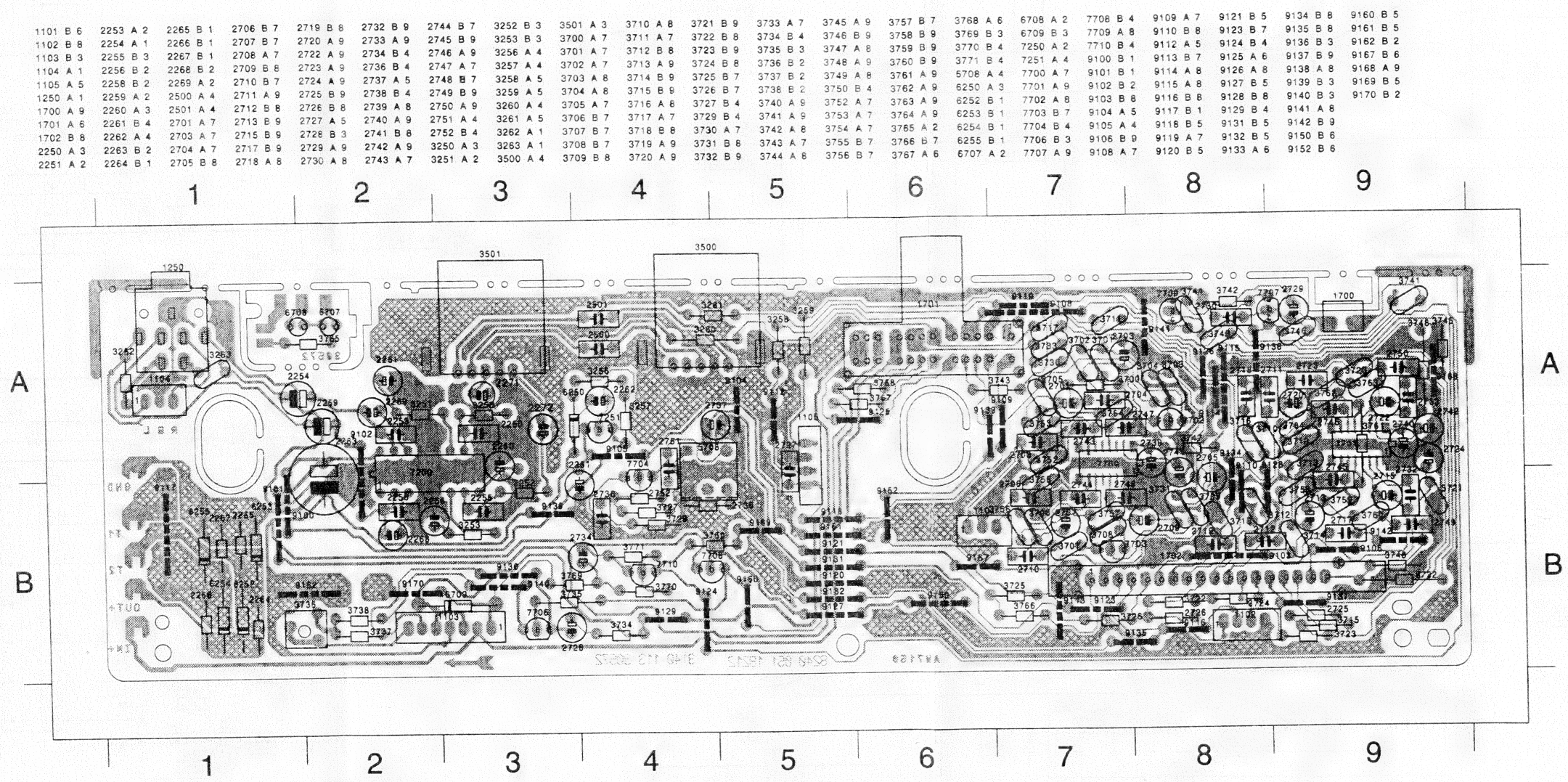
IC SPECIFICATIONS



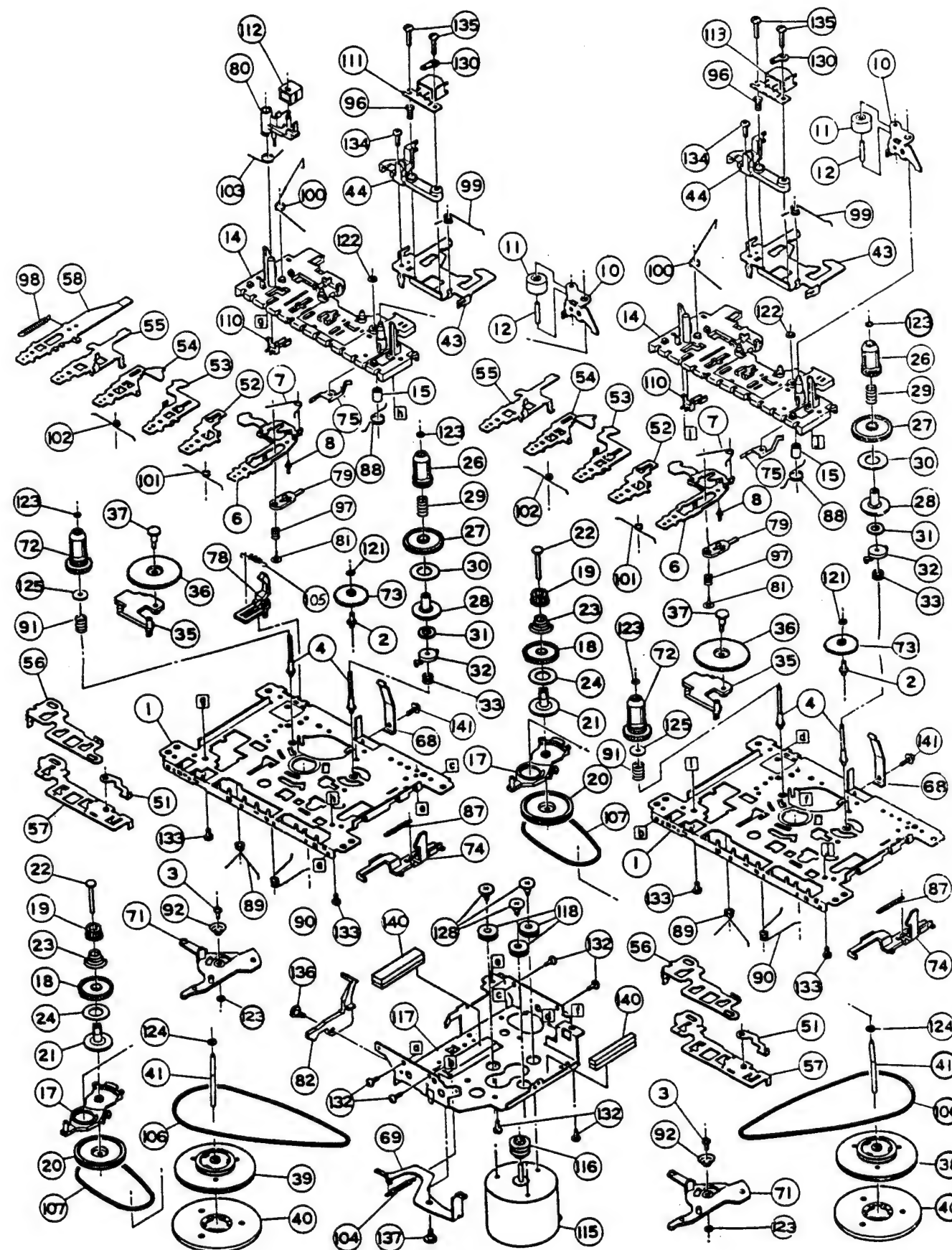
MAIN BOARD - CIRCUIT DIAGRAM



MAIN BOARD - LAYOUT DIAGARM



EXPLODED VIEW DIAGRAM - TAPE DECK (AW7150)



MECHANICAL PARTSLIST - TAPE DECK (AW7150)

10	4822 528 70849	Pinch Roller Arm
11	4822 528 70695	Pinch Roller Assy
74	4822 403 70968	Eject Hook (A)
106	4822 358 31125	Main Belt 1.1X59
107	4822 358 31124	Sub Belt 1.2X45.2
110	4822 278 90663	Leaf Switch
111	4822 249 10397	R/P Head MS15R-AA2N1
112	4822 249 40296	E Head TDK 6PA
113	4822 249 30223	P Head MS18-AA0N1
115	4822 361 21592	Motor EG-530YD-9BH

Note : Only the parts mentioned in this list are normal service parts.

MECHANICAL PARTSLIST -TAPE DECK (AW7250)

CDS - 83 PORTION

10	4822 528 70849	Pinch Roller Arm
11	4822 528 70695	Pinch Roller Assy
74	4822 403 70968	Eject Hook (A)
107	4822 358 31124	Sub Belt 1.2 X 45.2
110	4822 278 90663	Leaf Switch
111	4822 249 10397	R/P Head MS15R-AA2N1
112	4822 249 40306	E Head TDK 6PA

CDS - 88 PORTION

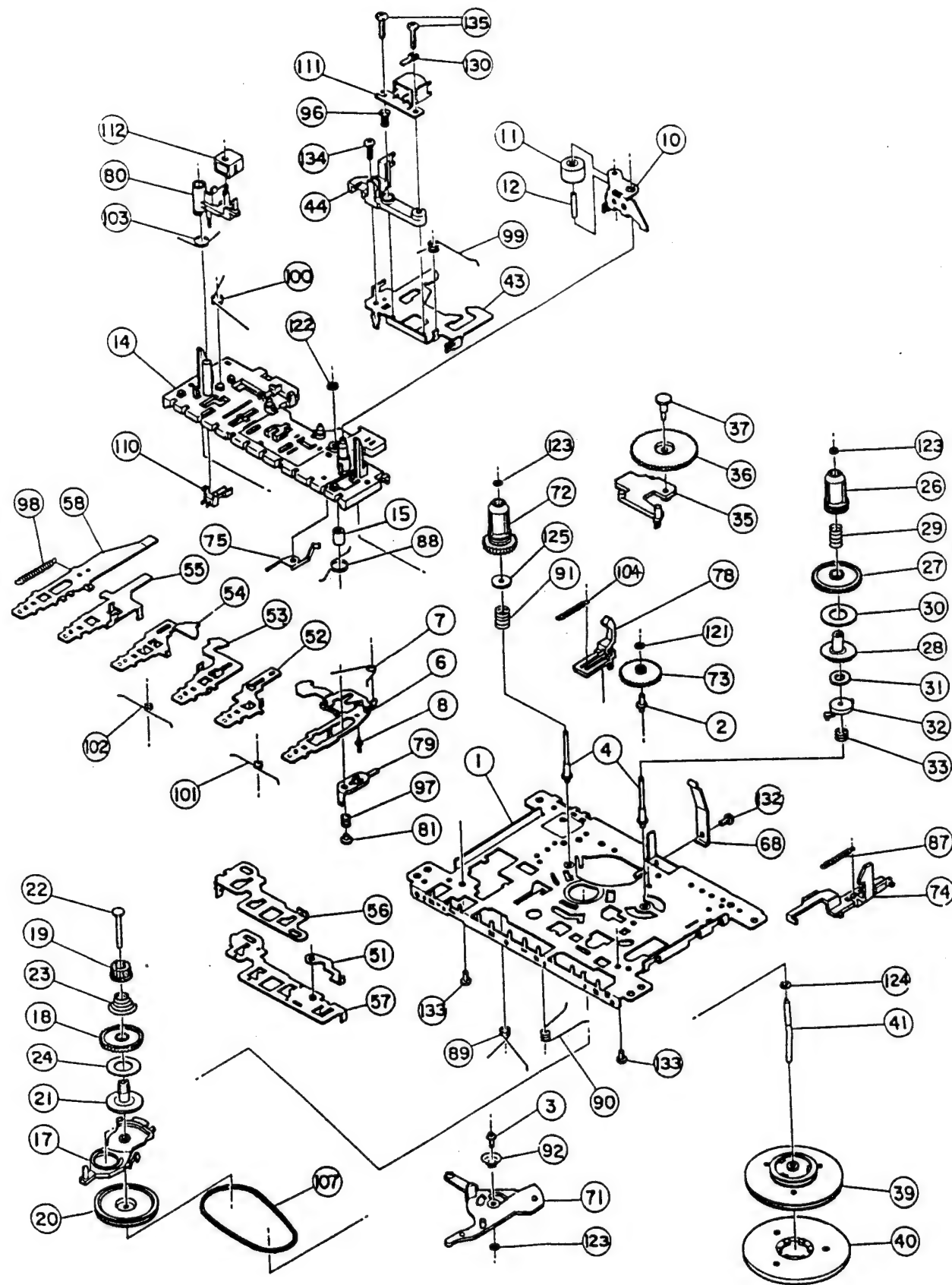
18	4822 358 31298	Belt (W)
50	4822 403 71105	Pinch Arm (F)
51	4822 403 71106	Pinch Arm (R)
52	4822 528 70695	Pinch Roller Assy
77	4822 403 71274	Door Latch (A)
108	4822 361 21592	Motor EG-530YD-9BH
109	4822 528 81524	Motor Pulley
112	4822 358 31299	Sub Belt
115	4822 277 30954	Slide Switch
118	4822 249 30206	P Head S-208W

119	4822 276 13494	Power Switch
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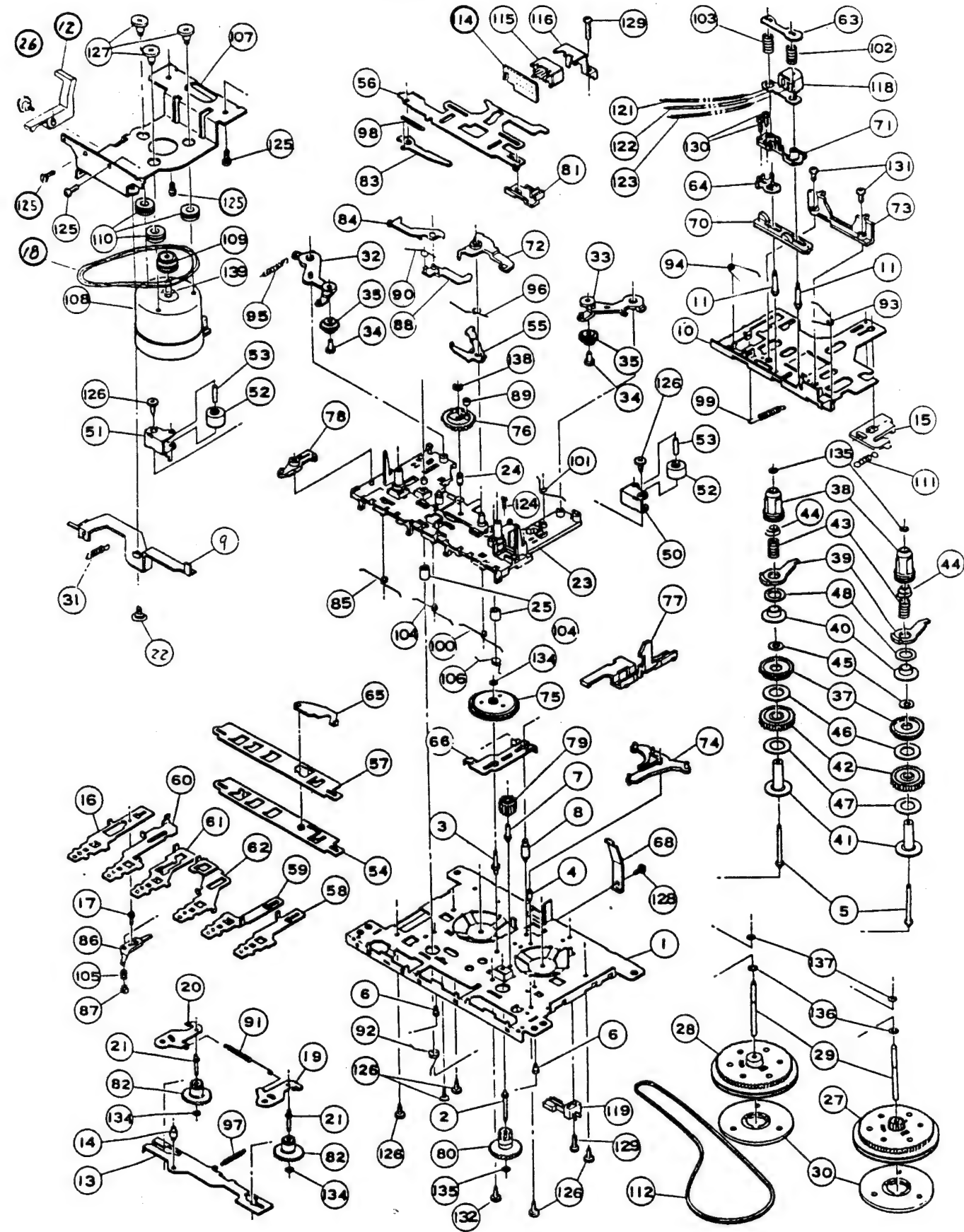
Note : Only the parts mentioned in this list are normal service parts.

EXPLODED VIEW DIAGRAM - TAPE DECK (AW7250)

CDS-883 EXPLODED VIEW
(CDS-83 PORTION)



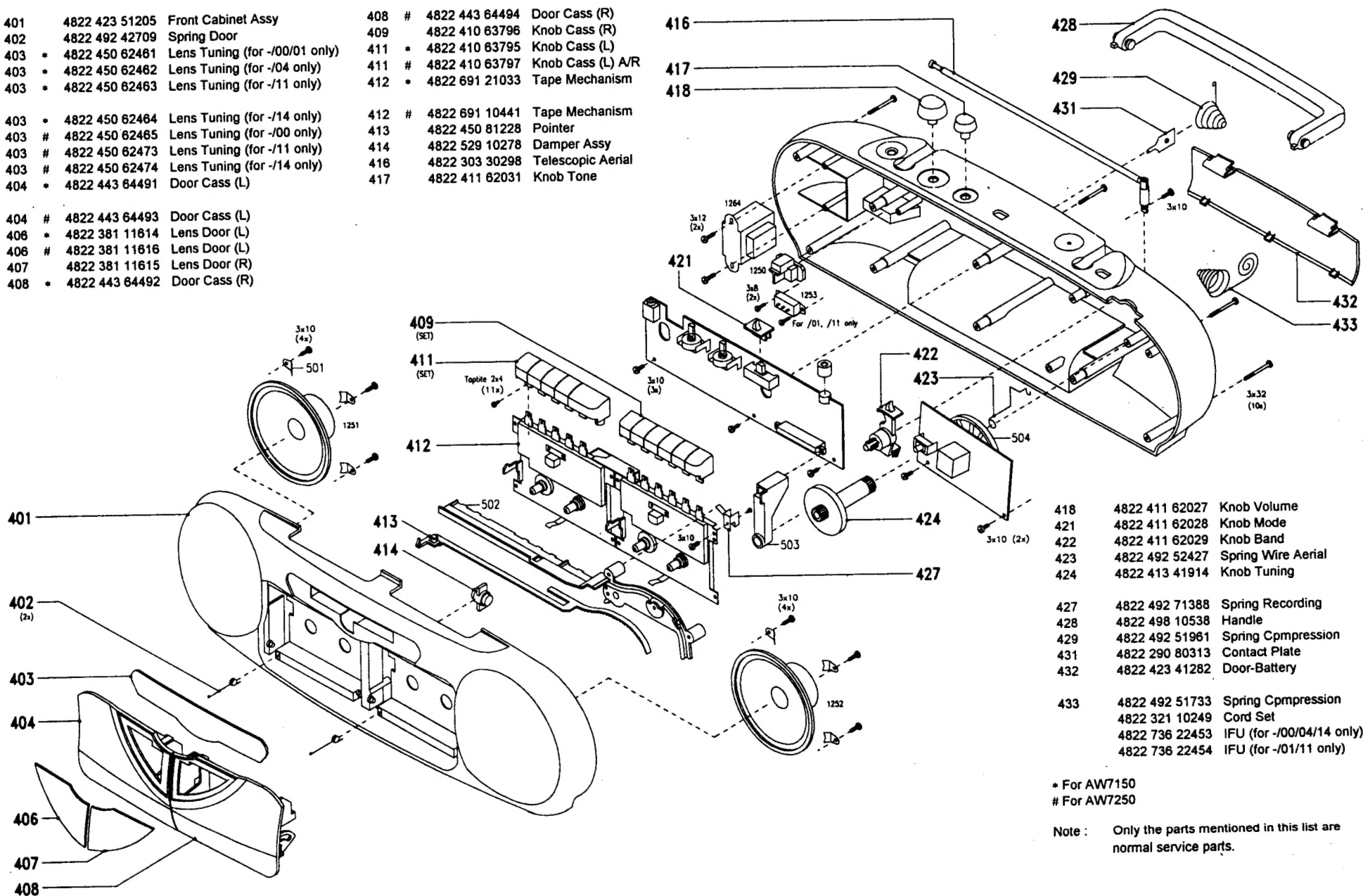
CDS-883 EXPLODED VIEW
(CDS-88 PORTION)





MECHANICAL PARTSLIST - CABINET




401	4822 423 51205	Front Cabinet Assy	408	#	4822 443 64494	Door Cass (R)
402	4822 492 42709	Spring Door	409		4822 410 63796	Knob Cass (R)
403	* 4822 450 62461	Lens Tuning (for -/00/01 only)	411	*	4822 410 63795	Knob Cass (L)
403	* 4822 450 62462	Lens Tuning (for -/04 only)	411	#	4822 410 63797	Knob Cass (L) A/R
403	* 4822 450 62463	Lens Tuning (for -/11 only)	412	*	4822 691 21033	Tape Mechanism
403	* 4822 450 62464	Lens Tuning (for -/14 only)	412	#	4822 691 10441	Tape Mechanism
403	# 4822 450 62465	Lens Tuning (for -/00 only)	413		4822 450 81228	Pointer
403	# 4822 450 62473	Lens Tuning (for -/11 only)	414		4822 529 10278	Damper Assy
403	# 4822 450 62474	Lens Tuning (for -/14 only)	416		4822 303 30298	Telescopic Aerial
404	* 4822 443 64491	Door Cass (L)	417		4822 411 62031	Knob Tone
404	# 4822 443 64493	Door Cass (L)				
406	* 4822 381 11614	Lens Door (L)				
406	# 4822 381 11616	Lens Door (L)				
407	4822 381 11615	Lens Door (R)				
408	* 4822 443 64492	Door Cass (R)				

EXPLODED VIEW DIAGRAM - CABINET





TUNER BOARD (FM/MW)

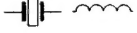


			
2101	4822 122 32764	4,7nF 20% 50V	
2102	4822 126 12812	47pF 5% 50V	
2103	4822 124 40248	10µF 20% 63V	
2104	4822 124 40248	10µF 20% 63V	
2105	4822 126 12814	24pF 5% N220 50V	
2106	4822 125 50681	Polyvaricon	
2108	4822 122 32147	22pF 2% N470 100V	
2109	4822 126 12809	2,2pF 5% N470 50V	
2110	4822 126 13592	5,6pF±0.5pF N1500	
2112	4822 124 41397	47µF 20% 25V	
2113	4822 126 13581	0,22µF 20% 50V	
2114	4822 126 12671	330pF 10% YB 50V	
2115	4822 124 40246	4,7µF 20% 63V	
2116	4822 124 80141	10nF 10% 50V	
2117	4822 124 40242	1µF 20% 63V	
2118	4822 124 40242	1µF 20% 63V	
2119	4822 124 80141	10nF 10% 50V	
2120	4822 124 40242	1µF 20% 63V	
2121	4822 124 40239	0,47µF 20% 63V	
2122	4822 124 40239	0,47µF 20% 63V	
2133	4822 126 12672	4,7nF 10% 50V	
2135	4822 126 10777	100pF 50V	
			
3101	4822 100 20167	50K 30%LIN 0,1W	
3102	4822 116 52297	68K 5% 0,5W	
3103	4822 116 83863	1K 5% 0,5W	
3104	4822 116 52256	2K2 5% 0,5W	
3105	4822 116 83864	10K 5% 0,5W	
3108	4822 116 52191	33R 5% 0,5W	
3109	4822 116 52234	100K 5% 0,5W	
3110	4822 116 52234	100K 5% 0,5W	
3113	4822 116 52252	180K 5% 0,5W	

			
5101	4822 157 70513	Coil - FM ant	
5102	4822 157 70731	Coil - MW/LW ant. assy	
5104	4822 156 30947	Coil - FM osc	
5105	4822 157 71145	Coil - MW osc	
5106	4822 157 70499	IFT - AM	
5107	4822 242 81154	FM cer. Filter Kits	
5108	4822 156 11146	IFT - AM	
			
6101	4822 130 30621	1N4148	
6102	4822 130 30621	1N4148	
			
7101	4822 209 32746	TEA5711T/N2	
- MISCELLANEOUS -			
1100	4822 277 21698	Switch - slide	
1201	4822 526 10176	Rod	
	4822 256 90463	Holder Ferrite Bar	

Note : Only the parts mentioned in this list are normal service parts.

TUNER BOARD (FM/MWLW)



			
2101	4822 122 32764	4,7nF 20% 50V	
2102	4822 126 12812	47pF 5% 50V	
2103	4822 124 40248	10µF 20% 63V	
2104	4822 124 40248	10µF 20% 63V	
2105	# 4822 126 12828	24pF 5% 50V	
2105	* 4822 126 12283	8,2pF 5% N220	
2106	# 4822 125 50681	Polyvaricon	
2106	* 4822 125 50648	Polyvaricon	
2107	* 4822 126 12827	390pF 5% N1500	
2108	# 4822 122 32147	22pF 2% N470 100V	
2108	* 4822 126 12284	5,6pF±0.5pF N1500	
2109	4822 126 12809	2,2pF 5% N470 50V	
2110	4822 126 12284	5,6pF 0,5% N1500 50V	
2112	4822 124 41397	47µF 20% 25V	
2113	4822 126 13581	0,22µF 20% 50V	
2114	4822 126 12671	330pF 10% 50V	
2115	4822 124 40246	4,7µF 20% 63V	
2116	4822 124 80141	10nF 10% 50V	
2117	4822 124 40242	1µF 20% 63V	
2118	4822 124 40242	1µF 20% 63V	
2119	4822 124 80141	10nF 10% 50V	
2120	4822 124 40242	1µF 20% 63V	
2121	4822 124 40239	0,47µF 20% 63V	
2122	4822 124 40239	0,47µF 20% 63V	
2125	4822 126 12826	120pF 50% N750 50V	
2126	4822 125 50045	1,8pF-22pF 250V	
2131	4822 126 12824	18pF 50% NPO 50V	
2150	4822 125 50045	1,8pF-22pF 250V	
			
3101	4822 100 20167	50K 30%LIN 0,1W	
3102	4822 116 52297	68K 5% 0,5W	
3103	4822 116 83863	1K 5% 0,5W	
3104	4822 116 52256	2K2 5% 0,5W	
3105	4822 116 83864	10K 5% 0,5W	
3108	4822 116 52191	33R 5% 0,5W	
3109	4822 116 52234	100K 5% 0,5W	
3110	4822 116 52234	100K 5% 0,5W	
3113	4822 116 52252	180K 5% 0,5W	


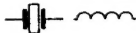


			
5101	# 4822 157 70513	Coil - FM ant	
5101	* 4822 157 70762	Coil - Chole 4.5T D5	
5102	4822 158 60627	Coil MW/LW ant. assy	
5104	# 4822 156 30947	Coil - FM osc	
5104	* 4822 157 70033	Coil - FM osc	
5105	4822 157 71145	Coil - MW osc	
5106	4822 157 70499	IFT - AM	
5107	4822 242 81154	KMFC5058-Z	
5108	4822 156 11146	IFT - AM	
5109	4822 157 71144	Coil-LW osc	
			
6101	4822 130 30621	1N4148	
6102	4822 130 30621	1N4148	
			
7101	4822 209 32746	TEA5711T/N2	
- MISCELLANEOUS -			
1100	4822 277 30933	Switch - slide	

* For -/14 only
Not for -/14

Note : Only the parts mentioned in this list are normal service parts.


TUNER BOARD (FM/MWSW1/SW2)



		
2101	4822 125 50597	PVC 335PX2/20PX2
2102	4822 126 12812	47pF 5% 50V
2103	4822 126 11714	4.7nF 20% 16V
2105	4822 124 40248	10µF 20% 50V
2106	4822 124 40248	10µF 20% 50V
2107	4822 126 12814	24pF 5% N220 50V
2108	4822 125 50077	1.4pF - 5.5pF 250V
2111	4822 126 13625	39pF 5% 50V
2112	4822 126 12283	8pF 0.5% 50V
2113	4822 125 50062	1.4pF - 10pF 250V
2115	4822 126 12122	22pF 5% 50V
2116	4822 126 12809	2.2pF 0.5% 50V
2117	4822 126 12337	3.9pF 0.5% 50V
2118	4822 122 31821	3.3pF 0.5% 50V
2120	4822 124 41397	47µF 20% 25V
2121	4822 126 13581	0.22µF 20% 50V
2122	4822 126 12671	330pF 10% 50V
2123	4822 125 50062	1.4pF - 10pF 250V
2125	4822 121 70099	2.2nF 10% 50V
2127	4822 126 12637	39pF 5% 50V N1500
2128	4822 121 70172	50V 7.5nF 10% 50V
2129	4822 125 50045	1.8pF - 22pF 250V
2130	4822 126 12689	15pF 5% 50V N750
2131	4822 121 51254	380pF 1% 400V
2132	4822 126 12337	9pF 0.5% 50V N1500
2133	4822 124 40246	4.7µF 20% 50V
2134	4822 121 51304	10nF 10% 50V
2135	4822 121 51304	10nF 10% 50V
2138	4822 124 40242	1µF 20% 50V
2139	4822 124 40242	1µF 20% 50V
2140	4822 124 40242	1µF 20% 50V
2141	4822 124 40239	0.47µF 20% 50V
2142	4822 124 40239	0.47µF 20% 50V
2147	4822 122 33307	10nF 80% 50V M20
		
3103	4822 116 52176	10R 5% 0.5W
3104	4822 116 52211	150R 5% 0.5W
3105	4822 116 52211	150R 5% 0.5W
3106	4822 116 52191	33R 5% 0.5W
3107	4822 116 52297	68K 5% 0.5W

		
3108	4822 100 20167	50K 5% 0.5W
3109	4822 116 52228	680R 5% 0.5W
3110	4822 116 83863	1K 5% 0.5W
3112	4822 116 52256	2K2 5% 0.5W
3113	4822 116 52234	100K 5% 0.5W
3114	4822 116 52234	100K 5% 0.5W
3121	4822 116 83864	10K 5% 0.5W
3124	4822 116 52252	180K 5% 0.5W
		
5101	4822 157 70513	Coil FM
5102	4822 156 30947	RF Coil 1.5 Turns
5104	4822 157 70501	Sw1 - Aerial Coil
5105	4822 156 10725	Sw2 - Aerial Coil
5106	4822 157 70502	Sw1 - Osc Coil
5107	4822 156 10725	Sw2 - Osc Coil
5108	4822 157 70696	Coil-M/O
5109	4822 157 70499	IFT-AM
5110	4822 156 11146	IFT-AM
5111	4822 242 71139	Fil Cer SFU468B
5112	4822 242 81154	Cerkit KMFC5058-Z
5113	4822 158 60623	Bar-Coil Assy MW
		
6101	4822 130 30621	1N4148
6102	4822 130 30621	1N4148
		
7101	4822 209 32746	TEA5711T/N2
- MISCELLANEOUS -		
1102	4822 277 21793	Slide Switch 6P4T

Note : Only the parts mentioned in this list are normal service parts.

ELECTRICAL PARTSLIST

		
2250	4822 126 11592	1nF 10% 50V
2251	5322 124 41431	22µF 20% 35V
2253	5322 121 42661	330nF 5% 63V
2254	4822 124 81177	220µF 20% 10V
2255	4822 126 11592	1nF 10% 50V
2256	5322 124 41431	22µF 20% 35V
2258	5322 121 42661	330nF 5% 63V
2259	4822 124 81177	220µF 20% 10V
2260	4822 124 40196	220µF 20% 16V
2261	4822 124 81178	470µF 20% 16V
2262	4822 124 41643	100µF 20% 16V
2263	4822 124 40723	2200µF 20% 16V
2264	4822 126 11585	22nF+80-20% Y5V 25V
2265	4822 126 11585	22nF+80-20% Y5V 25V
2266	4822 126 11585	22nF+80-20% Y5V 25V
2267	4822 126 11585	22nF+80-20% Y5V 25V
2268	4822 124 41643	100µF 20% 16V
2269	4822 124 41643	100µF 20% 16V
2500	4822 121 43145	33nF 10% 50V
2501	4822 121 43145	33nF 10% 50V
2701	4822 124 40433	47µF 20% 25V
2703	5322 124 41431	22µF 20% 35V
2704	4822 121 51305	15nF 10% 50V
2705	5322 124 41431	22µF 20% 35V
2706	4822 122 33197	1nF 10% 50V
2707	4822 124 40433	47µF 20% 25V
2708	4822 122 33197	1nF 10% 50V
2709	5322 124 41431	22µF 20% 35V
2710	4822 121 51305	15nF 10% 50V
2711	4822 126 13632	22nF 20% 50V
2712	4822 122 33197	1nF 10% 50V
2713	4822 124 40433	47µF 20% 25V
2715	5322 124 41431	22µF 20% 35V
2717	4822 121 51305	15nF 10% 50V
2718	4822 126 13632	22nF 20% 50V
2719	4822 122 33197	1nF 10% 50V
2720	4822 124 40433	47µF 20% 25V
2722	5322 124 41431	22µF 20% 35V
2723	4822 121 51305	15nF 10% 50V
2724	5322 124 41431	22µF 20% 35V
2725	4822 126 12148	2.7nF 10%
2726	4822 126 12148	2.7nF 10%
2727	4822 122 31125	4.7nF 80% 63V
2728	4822 124 40433	47µF 20% 25V
2729	4822 124 81176	1µF 20% 50V

		
2730	4822 126 13631	1nF 20% 50V
2732	4822 126 12882	100nF +80-20% 50V
2733	4822 126 12882	100nF +80-20% 50V
2734	4822 124 40433	47µF 20% 25V
2736	4822 122 33197	1nF 10% 50V
2737	4822 124 40242	1µF 20% 63V
2738	4822 126 12147	22nF 10% Y5R 25V
2739	4822 124 41643	100µF 20% 16V
2740	4822 124 41643	100µF 20% 16V
2741	4822 124 40248	10µF 20% 63V
2742	4822 124 40248	10µF 20% 63V
2743	5322 122 32311	470pF 10% 100V
2744	5322 122 32311	470pF 10% 100V
2745	5322 122 32311	470pF 10% 100V
2746	5322 122 32311	470pF 10% 100V
2747	4822 126 10777	100pF 50V
2748	4822 126 10777	100pF 50V
2749	4822 126 10777	100pF 50V
2750	4822 126 10777	100pF 50V
2751	4822 121 51304	10nF 10% 50V
2752	4822 126 11714	4.7nF 20%
		
3250	4822 116 52224	470R 5% 0.5W
3251	4822 116 52184	18R 5% 0.5W
3252	4822 116 52224	470R 5% 0.5W
3253	4822 116 52184	18R 5% 0.5W
3256	4822 116 52217	270R 5% 0.5W
3257	4822 116 83863	1K 5% 0.5W
3258	4822 116 52257	22K 5% 0.5W
3259	4822 116 52257	22K 5% 0.5W
3260	4822 116 52284	47K 5% 0.5W
3261	4822 116 52284	47K 5% 0.5W
3262	4822 116 52211	150R 5% 0.5W
3263	4822 116 52211	150R 5% 0.5W
3500	4822 101 21163	50KA
3501	4822 273 10295	Rot.VR 50KB Vol.
3700	4822 116 52197	56R 5% 0.5W
3701	4822 116 52276	3K9 5% 0.5W
3702	4822 116 52283	4K7 5% 0.5W
3703	4822 116 52276	3K9 5% 0.5W
3704	4822 116 52276	3K9 5% 0.5W
3705	4822 116 52283	4K7 5% 0.5W

ELECTRICAL PARTSLIST



3706	4822 116 52197	56R	5%	0,5W
3707	4822 116 52276	3K9	5%	0,5W
3708	4822 116 52283	4K7	5%	0,5W
3709	4822 116 52276	3K9	5%	0,5W
3710	4822 116 52244	15K	5%	0,5W
3711	4822 116 52238	12K	5%	0,5W
3712	4822 116 52256	2K2	5%	0,5W
3713	4822 116 52197	56R	5%	0,5W
3714	4822 116 52303	8K2	5%	0,5W
3715	4822 116 83864	10K	5%	0,5W
3716	4822 116 52244	15K	5%	0,5W
3717	4822 116 52238	12K	5%	0,5W
3718	4822 116 52256	2K2	5%	0,5W
3719	4822 116 52197	56R	5%	0,5W
3720	4822 116 52303	8K2	5%	0,5W
3721	4822 111 30893	4M7	5%	0,2W
3722	4822 116 83864	10K	5%	0,5W
3723	4822 116 52256	2K2	5%	0,5W
3724	4822 116 52256	2K2	5%	0,5W
3725	4822 116 52176	10R	5%	0,5W
3726	4822 116 52211	150R	5%	0,5W
3727	4822 116 52234	100K	5%	0,5W
3729	4822 116 52176	10R	5%	0,5W
3730	4822 116 52303	8K2	5%	0,5W
3731	4822 116 52303	8K2	5%	0,5W
3732	4822 116 52303	8K2	5%	0,5W
3733	4822 116 52303	8K2	5%	0,5W
3734	4822 116 83863	1K	5%	0,5W
3735	4822 116 52292	560K	5%	0,5W
3736	4822 100 20165	500R	30%LIN	0,1W
3737	4822 116 52276	3K9	5%	0,5W
3738	4822 116 52176	10R	5%	0,5W
3740	4822 116 52235	1M	5%	0,5W
3741	4822 116 83864	10K	5%	0,5W
3742	4822 116 52228	680R	5%	0,5W
3743	4822 116 83864	10K	5%	0,5W
3744	4822 116 52289	5K6	5%	0,5W
3745	4822 116 52219	33R	5%	0,5W
3746	4822 116 52219	33R	5%	0,5W
3747	4822 116 52175	100R	5%	0,5W
3748	4822 116 52175	100R	5%	0,5W
3749	4822 116 52256	2K2	5%	0,5W
3750	4822 116 52291	56K	5%	0,5W
3752	4822 116 52224	470R	5%	0,5W
3753	4822 116 52215	220R	5%	0,5W



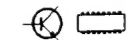
3754	4822 116 52239	120K	5%	0,5W
3755	4822 116 52224	470R	5%	0,5W
3756	4822 116 52215	220R	5%	0,5W
3757	4822 116 52239	120K	5%	0,5W
3758	4822 116 52224	470R	5%	0,5W
3759	4822 116 52215	220R	5%	0,5W
3760	4822 116 52239	120K	5%	0,5W
3761	4822 116 52245	150K	5%	0,5W
3762	4822 116 52215	220R	5%	0,5W
3763	4822 116 52239	120K	5%	0,5W
3764	4822 116 52224	470R	5%	0,5W
3765	4822 116 83863	1K	5%	0,5W
3766	4822 116 83864	10K	5%	0,5W
3767	4822 116 83864	10K	5%	0,5W
3768	4822 116 52257	22K	5%	0,5W
3769	4822 116 52234	100K	5%	0,5W
3770	4822 116 83863	1K	5%	0,5W
3771	4822 116 83864	10K	5%	0,5W



5708 4822 156 20946 Coil

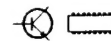


6250	4822 130 34167	BZX79-C6V2
6252	4822 130 31438	1N4001
6253	4822 130 31438	1N4001
6254	4822 130 31438	1N4001
6255	4822 130 31438	1N4001
6707	4822 130 31274	TLR124
6708	4822 130 31274	TLR124
6709	4822 130 31438	1N4001



7250	4822 209 70372	TA7769P
7251	4822 130 40937	ED1402C
7700	4822 209 32918	AN7318S
7701	4822 209 32918	AN7318S
7702	4822 130 40937	ED1402C

ELECTRICAL PARTSLIST



7703	4822 130 40937	ED1402C
7704	4822 130 40937	BC548B
7706	4822 130 40941	1602C
7707	4822 130 40937	ED1402C
7708	4822 130 40937	BC548B
7709	4822 130 40937	BC548B
7710	4822 130 40937	BC548B

- MISCELLANEOUS -

1250	4822 267 31468	Socket-headphone
1251	4822 240 50342	Loudspeaker
1252	4822 240 50342	Loudspeaker
1253	⚠ 4822 277 21794	Voltage Selector
1700	4822 242 30176	Microph. Cond.
1701	4822 277 30972	Switch-slide
1702	4822 276 20529	Switch-push
1800	⚠ 4822 146 21819	Transf. EI-41 230V
1800	⚠ 4822 146 21821	Transf. EI-41 120/230V
1801	⚠ 4822 267 30738	Socket Mains

Note: Only the parts mentioned in this list are normal service parts.